

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead

FEATURES

- Low Reverse Current
- Fast Switching Speed
- For General Purpose Switching Applications
- Surface Mount Package Ideally Suited for Automatic Insertion

SOD-123

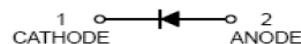


MARKING

Part Number	Marking Code
BAV19P-C	A8
BAV20P-C	T2
BAV21P-C	T3

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-123	3K	7 inch



ORDER INFORMATION

Part Number	Type
BAV19P-C	Lead (Pb)-free and Halogen-free
BAV20P-C	
BAV21P-C	

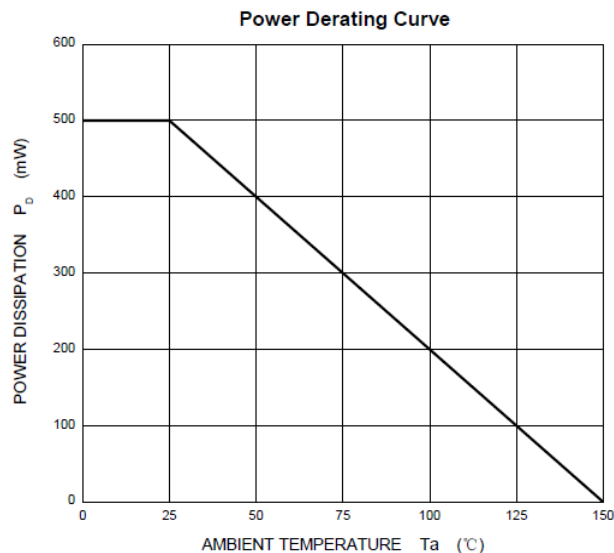
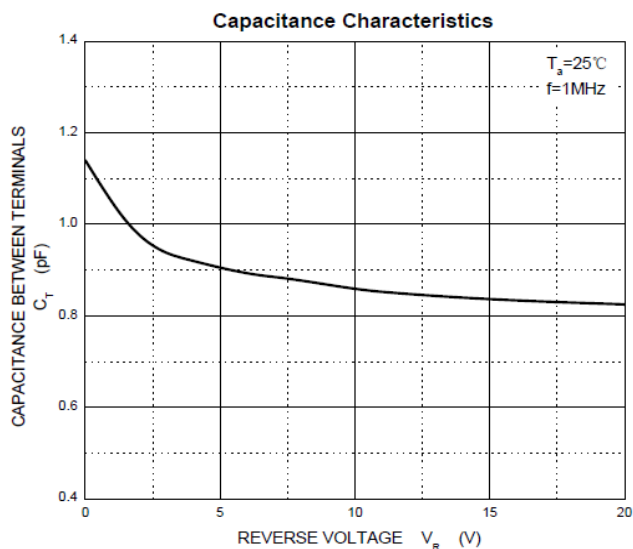
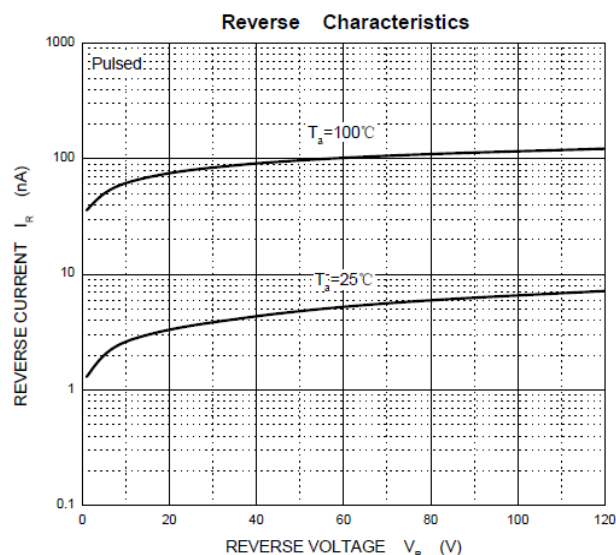
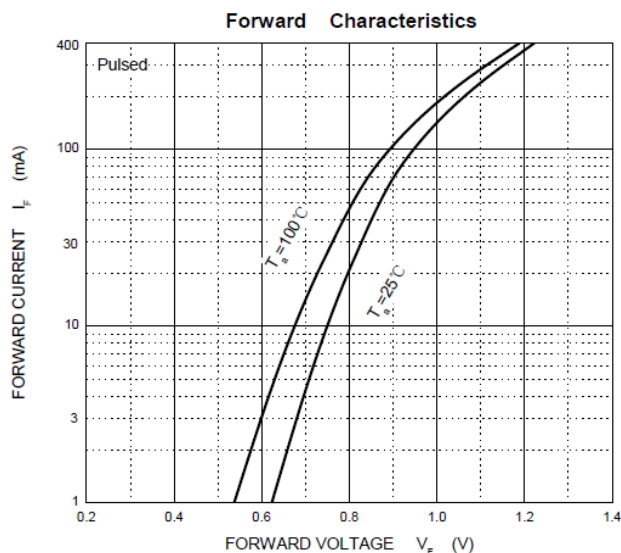
ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings			Unit
		BAV19P-C	BAV20P-C	BAV21P-C	
Non-Repetitive Peak Reverse Voltage	V _{RM}	120	200	250	V
Peak Repetitive Peak Reverse Voltage	V _{RPM}	100	150	200	
Working Peak Reverse Voltage	V _{RWM}				
RMS Reverse Voltage	V _{R(RMS)}	71	106	141	
Average Rectified Output Current	I _O	200			mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	1.7			A
Power Dissipation	P _D	400			mW
Thermal Resistance Junction-Ambient Air	R _{θJA}	250			°C/W
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150			°C

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

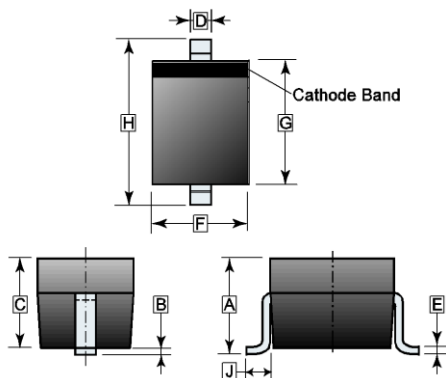
Parameters		Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage		V_F	-	-	1	V	$I_F=100\text{mA}$
			-	-	1.25		$I_F=200\text{mA}$
Reverse Leakage Current	BAV19P-C	I_R	-	-	0.1	uA	$V_R=100\text{V}$
	BAV20P-C		-	-	0.1		$V_R=150\text{V}$
	BAV21P-C		-	-	0.1		$V_R=200\text{V}$
Total capacitance		C_{tot}	-	5	-	pF	$V_R=0, f=1\text{MHz}$
Reverse Recovery Time		T_{RR}	-	50	-	nS	$I_F=I_R=30\text{mA}, I_{\text{RR}}=0.1 \times I_R, R_L=100\Omega$

RATINGS AND CHARACTERISTIC CURVES



PACKAGE OUTLINE DIMENSIONS

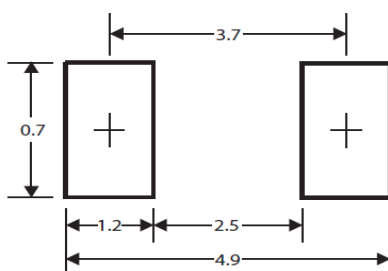
SOD-123



REF.	Millimeter	
	Min.	Max.
A	1.15 REF.	
B	0.10 REF.	
C	1.00	1.30
D	0.30	0.78
E	0.05	0.25
F	1.45	1.80
G	2.55	2.90
H	3.10	3.85
J	0.50 REF.	

MOUNTING PAD LAYOUT

SOD-123



*Dimensions in millimeters